

Observations of Occultations of Stars by the Moon and of Phenomena of Jupiter's Satellites made at the Royal Observatory, Greenwich, in the year 1895.

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(Communicated by the Astronomer Royal.)

Occultations of Stars by the Moon.

Date.	Phenomenon.	Telescope.	Power.	Moon's Limb.	Mean Solar Time of Observation.		Observer.
					h	m	
Feb. 6 <sup>1895</sup>	Disapp. 49 Aurigæ	Sheepshanks Equat.	100	Dark	5	48 58.99	B.
6	" 49 Aurigæ	Altazimuth	100	"	5	48 58.52	C. D.
May 4	" $\tau$ Leonis	Sheepshanks Equat.	120	"	7	49 40.61	H.
4	" $\tau$ Leonis	Astrographic Guid. Tel.	120	"	7	49 40.74	C. D.
4	" W.B. XI., 349	Sheepshanks Equat.	100	"	7	51 46.17	H.
4	" W.B. XI., 349	Astrographic Guid. Tel.	120	"	7	51 46.20	C. D.
4	" W.B. XI., 365	Sheepshanks Equat.	100	"	8	8 20.35	H.
4	" W.B. XI., 365	Astrographic Guid. Tel.	120	"	8	8 20.77	C. D.
4	" W.B. XI., 372	" " "	225	"	8	28 58.77	"
9	Reapp. $\pi$ Scorpii	Sheepshanks Equat.	120	"	11	14 35.20	A. C.
11 (a)	Disapp. $\gamma^1$ Sagittarii	" "	120	Bright	15	10 38.84	H.
June 6 (b)	" $\tau$ Scorpii	Astrographic Guid. Tel.	225	"	10	43 36.25	H. F.
6 (c)	Reapp. $\tau$ Scorpii	" " "	225	"	10	58 46.85	"
26	Disapp. Regulus	Altazimuth	100	Dark	8	4 2.75	H.
26	" Regulus	Sheepshanks Equat.	120	"	8	4 3.25	A. C.
26	Reapp. Regulus	Altazimuth	100	Bright	8	54 58.21	H.

Greenwich Observations of

LVI. 3,

Day.	Phenomenon.	Telescope.	Power.	Moon's Limb.	Mean Solar Time of Observation.	Observer.
					<sup>h</sup> <sup>m</sup> <sup>s</sup>	
<sup>1895.</sup> June 26	Reapp. Regulus	Astrographic Guid. Tel.	225	Bright	8 54 56.23	J.
July 16	" 47 Arietis	Altazimuth	100	Dark	13 26 55.68	D.
16	" 47 Arietis	Sheepshanks Equat.	100	"	13 26 55.17	W. B.
Aug. 6 (d)	Disapp. 42 Aquarii	Astrographic Guid. Tel.	225	Bright	12 25 4.06	D. E.
6	Reapp. 42 Aquarii	Sheepshanks Equat.	55	Dark	13 40 33.28	A. C.
7 (e)	Disapp. 81 Aquarii	Astrographic Guid. Tel.	225	Bright	13 43 19.20	J.
7	Reapp. 81 Aquarii	" "	225	Dark	15 1 35.67	"
7	Disapp. 82 Aquarii	" "	225	Bright	15 17 1.94	"
12	Reapp. Brad 355	Sheepshanks Equat.	100	Dark	10 0 50.41	W. B.
Sept. 2	Disapp. Aquarii	"	100	"	13 52 12.44	B.
2	Aquarii	Astrographic Guid. Tel.	225	"	13 52 12.14	D. E.
15	Reapp. 83 Cancri	Altazimuth	100	"	15 34 40.41	B.
29	Disapp. δ Capricorni	Sheepshanks Equat.	100	"	8 47 14.19	C. M.
29	" δ Capricorni	Astrographic Guid. Tel.	225	"	8 47 14.18	R. C.
29 (f)	Reapp. δ Capricorni	Sheepshanks Equat.	100	Bright	10 7 27.01	C. M.
29	" δ Capricorni	Astrographic Guid. Tel.	225	"	10 7 25.05	R. C.
29	" δ Capricorni	Altazimuth	100	"	10 7 (30.67)	W.
30	Disapp. 58 Aquarii	Astrographic Guid. Tel.	225	Dark	9 9 12.48	D. E.
30	" 58 Aquarii	Sheepshanks Equat.	100	"	9 9 12.51	J.

Day.	Phenomenon.	Telescope.	Power.	Moon's Limb.	Mean Solar Time of Observation.	Observer.
1895. Sept. 30.	Disapp. 58 Aquarii	Altazimuth	100	Dark	h m s 9 9 13.38	W.
Nov. 3 (g)	" 19 Tauri	Astrographic Guid. Tel.	225	Bright	13 28 29.92	H.
3	Reapp. 19 Tauri	" "	225	Dark	14 45 34.81	"
3	" 19 Tauri	Sheepshanks Equat.	55	"	14 45 34.66	A. C.
3 (h)	" 20 Tauri	Astrographic Guid. Tel.	225	"	14 51 (20.47)	H.
3	" 20 Tauri	Sheepshanks Equat.	55	"	14 51 17.62	A. C.
3 (i)	" 20 Tauri	Corbett Telescope	100	"	14 51 17.29	R. C.
10	" $\psi$ Virginis	Altazimuth	100	"	17 29 43.11	A. C.

Notes.

The occultations during the lunar eclipse on March 10 are not included in the above table, as these have been already communicated to the Society (*M.N.* lv. 6, p. 329).

(a) Not considered a good observation; Moon's limb boiling; star diffused. (b) Observation noted as doubtful; Moon's limb boiling; cloudy. (c) Moon's limb ill-defined, but observation considered better than disappearance. (d) Not considered a good observation. (e) Cloudy. (f) Not considered a good observation; star was not quite in contact with limb when first seen. (g) The star was projected on the Moon's disc  $1\frac{1}{2}$  second before disappearance. Considered a bad observation. The count of seconds did not agree with the comparison with the clock after observation, and the observed time has therefore been increased 1". (h) The observer noted probably late; he was looking at the clock just before, and probably lost the actual reappearance. The observed time has been diminished by 1". (i) The observed time has been increased by 1".

*Phenomena of Jupiter's Satellites.*

Day.	Satellite.	Phenomenon.	Telescope.	Power.	Mean Solar Time of Observation. h m s	Mean Solar Time of N.A. h m s	Observer.
1895 Jan. 9	II.	Tr. Ing. First contact	28-inch Equat.	450		10 20	L.
9	II.	Last contact	"	"	10 22 15		"
14	III.	Occ. D. Last seen	Sheepsh. Equat.	55	6 45 53	6 43	H. F.
18	II.	Ecl. R. First seen	"	200	11 23 14		C. D.
18	II.	Bisection	"	"	11 25 2	11 23 58	"
18	II.	Full brightness	"	"	11 26 42		"
18	I.	Tr. Ing. First contact	"	100	12 52 56		"
18	I.	Bisection	"	"	12 54 25	12 52	"
18	I.	Last contact	"	"	12 56 50		"
21	III.	Occ. D. First contact	"	200	10 2 18		A. C.
21	III.	Bisection	"	"	10 4 23	10 5	"
21	III.	Last seen	"	"	10 8 10		"
21	III.	Occ. R. Last contact	"	"	12 52 47	12 54	"
21	III. (a)	Ecl. D. Began to fade	"	"	12 56 58		"
21	III.	Last seen	"	"	13 2 1	13 2 49	"
25	II.	Occ. D. First contact	"	"	9 45 9		"
25	II.	Bisection	"	"	9 47 57	9 49	"
25	II.	Last seen	"	"	9 51 7		"